

variable pressure oxygen regulators

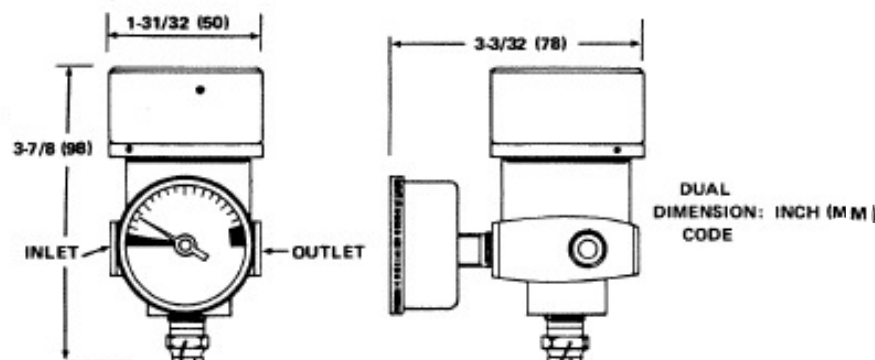
This series of regulators is designed to reduce the pressure of cylinder oxygen ranging from 100 to 1800 psi down to normal operating system pressures of 50 to 150 psi (0.345 to 1.03 MPa) — in a linear relationship. Because of this linear relationship, the regulator outlet pressure is proportional to pressure remaining in the high pressure cylinder. This permits the use of a remote, low pressure gauge to indicate oxygen supply still in the cylinder, and eliminates the need of a high pressure oxygen line.



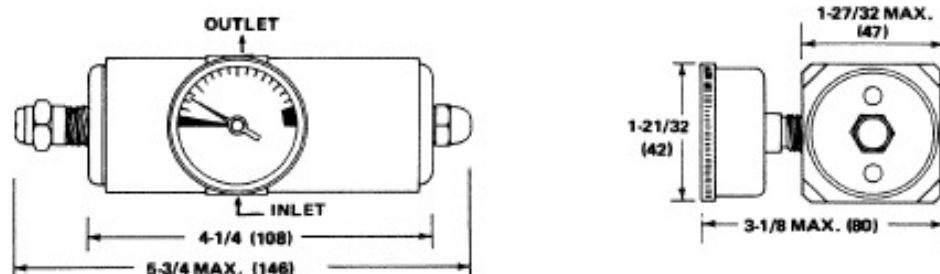
AVOX Systems

Outstanding Features

- Flow capacity ranging from 200 LPM @ 100 psi to 400 LPM @ 1800 psi
- Single stage design with rugged aluminum body and stainless steel components
- Two compact models with maximum weight of 1.45 lbs.
- Relief valves of both models set to vent at between 180-200 psi — reseal between 165-180 psi
- Regulator configurations available with inlet pressure gauges and various inlet/outlet fittings



800480 Less Inlet and Outlet Fittings



5425 Less Inlet and Outlet Fittings

The regulator series are similar as to form, fit and function except for the regulated pressure tolerances.

Interchangeability is as follows:

PN 800480	PN 5425
-00*	None
-01	None
None	-00*
-02*	-1 *
None	-3
-03*	-5 *
-04	-7

* Includes High Pressure Gauge

Specifications

	5425 SERIES	800480 SERIES
Type	Single Stage	Single Stage
Regulated Outlet Pressure	50 ± 5 to 150 ± 5 psi (0.345 ± 0.034 to 1.03 ± 0.034 MPa) with supply of 100 to 1800 psi (0.69 to 12.41 MPa) Respectively-Linear	50 ± 10 to 150 ± 10 psi (0.345 ± 0.069 to 1.03 ± 0.069 MPa) with supply of 100 to 1800 psi (0.69 to 12.41 MPa) Respectively-Linear
Flow Capacity, Regulated	0-65 LPM (dm ³ /min)	0-65 LPM (dm ³ /min)
Flow Capacity, Minimum, Unregulated	200 LPM @ 100 psi Inlet (0.69 MPa) 400 LPM @ 1800 psi Inlet (12.41 MPa)	200 LPM @ 100 psi Inlet (0.69 MPa) 400 LPM @ 1800 psi Inlet (12.41 MPa)
Weight	1.45 lb. max. (0.66 kg)	1.2 lb. max. (0.55 kg)
Material: Body	Aluminum	Aluminum
Metal Components	Aluminum & Stainless Steel	Aluminum & Stainless Steel
Sensing Element	Metal Bellows	Silicone Diaphragm
Valve Seat	Polyurethane Compound	KEL F-81
Inlet Port Size	1/4 - 18 ANPT	1/4 - 18 ANPT
Outlet Port Size	1/4 - 18 ANPT	1/4 - 18 ANPT
Relief Valve	Relieves at outlet pressure between 180-200 psi (1.24 - 1.38 MPa); reseals between 165-180 psi (1.14-1.24 MPa)	Relieves at outlet pressure between 180-200 psi (1.24 - 1.38 MPa); reseals between 165-180 psi (1.14-1.24 MPa)
Envelope Size	See Figure	See Figure

WARNING

IMPROPER USE OR MAINTENANCE OF THIS APPARATUS MAY RESULT IN INJURY OR DEATH. ANY SERVICE OR OVERHAUL SHALL BE DONE ONLY BY THOSE FACILITIES EXPERIENCED IN, OR BY PERSONNEL KNOWLEDGEABLE IN, HIGH PRESSURE AVIATION OXYGEN EQUIPMENT. CONTACT AVOX Systems OR ITS DISTRIBUTORS FOR NAMES OF AUTHORIZED SERVICE CENTERS. PERSONNEL SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS REGULATOR. UNIT SHALL BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN PER MIL-0-27210.